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Tai

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[54] **METHOD AND APPARATUS FOR TONE ADJUSTMENT CORRECTION ON RENDERING GRAY LEVEL IMAGE DATA**

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[51] Int. Cl.⁶ **H04N 1/407**

[52] U.S. Cl. **358/455; 358/456; 358/465**

[58] **Field of Search** **358/455, 456, 358/458, 460, 465, 466, 461, 463, 464, 457, 429, 448, 459, 471, 298, 521, 523, 534, 408**

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[57] ABSTRACT

A method and apparatus for reproducing an original image includes a scanner or other image source for generating a digitized raw image data for each pixel area of an image. For each pixel the raw image data is transformed into a gray level rendering value pixel by comparing the raw image data value with threshold values from threshold mask sets. Tone adjustment means is provided for generating a tone corrected rendering gray level pixel value for each pixel. A printer or display is controlled to print the digitized image signal by rendering the dot regions in accordance with the tone corrected gray level rendering pixel value. Thus after a print is made a tone correction adjustment maybe made and in response to this tone adjustment a new print can be made using rendering image data in buffer memory without the need for rescanning of the image.

25 Claims, 22 Drawing Sheets

